

CLAIMS

1. A network including a bus through which data is transmitted and a plurality of network devices connected to the bus,

wherein at least one of the plurality of network devices includes measurement means for measuring a certain variate in a predetermined measurement cycle and data output means for outputting a result measured by the measurement means on the bus, and

wherein at least another one of the plurality of network devices includes means for detecting the predetermined cycle from a plurality of timings when the measurement result is output on the bus, measurement means for measuring a certain variate at measurement timings on the basis of the predetermined cycle, and data output means for outputting a result measured by the measurement means on the bus.

2. A network including a bus through which data is transmitted and a plurality of network devices connected to the bus,

wherein at least one of the plurality of network devices includes measurement means for measuring a certain variate at measurement timings on the basis of a predetermined reference timing and data output means for

adding information concerning the measurement timings to a result measured by the measurement means and outputting the result on the bus.

3. The network according to Claim 2, wherein at least another one of the network devices includes measurement means for measuring a certain variate at measurement timings that are determined on the basis of the measurement timing information added to the measurement result with respect to a base time when the measurement result is output, and data output means for outputting a result measured by the measurement means on the bus.

4. The network according to Claim 2, wherein the predetermined reference timing is a timing generated by at least one of the network devices.

5. The network according to Claim 2, wherein the predetermined reference timing is a timing when a certain network device, among the plurality of network devices, outputs a signal on the bus.